



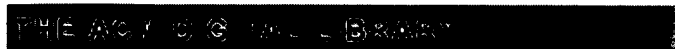
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### 81 [Digital watermarking](#)

Minerva M. Yeung

July 1998 **Communications of the ACM**, Volume 41 Issue 7

Full text available: [pdf\(172.73 KB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)



### 82 [Watermarking maps: hiding information in structured data](#)

Sanjeev Khanna, Francis Zane

February 2000 **Proceedings of the eleventh annual ACM-SIAM symposium on Discrete algorithms**

Full text available: [pdf\(984.65 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



### 83 [Preserving, securing, and assessing digital libraries: Why watermark?: the copyright need for an engineering solution](#)

Michael Seadle, J. R. Deller, Aparna Gurijala

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: [pdf\(142.88 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



An important research component in the creation of the National Gallery of the Spoken Word (NGSW) is the development of watermarking technologies for the audio library. In this paper we argue that audio watermarking is a particularly desirable means of intellectual property protection. There is evidence that the courts consider watermarks to be a legitimate form of copyright protection. Watermarking facilitates redress, and represents a form of copyright protection that universities can use with ...

**Keywords:** DMCA, copyright, watermarking

### 84 [Potpourri: A system for watermarking relational databases](#)

Rakesh Agrawal, Peter J. Haas, Jerry Kiernan

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available: [pdf\(39.58 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)



85

### [Robust digital watermarking: A high capacity watermarking system for digital maps](#)



Gerrit Schulz, Michael Voigt

September 2004 **Proceedings of the 2004 multimedia and security workshop on Multimedia and security**

Full text available:  pdf(959.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a way to embed watermarks into 2D vectordata. The watermarking system provides a high capacity and is robust against the following attacks: polyline simplifications like the Douglas-Peucker algorithm [1], moving and cropping of data and addition of small amounts of random noise. The system is designed for adding information to digital maps. The attacks mentioned above can happen during the daily work with these maps, so the watermark will not be destroyed by working with the ...

**Keywords:** 2D vector data, digital maps, watermarking

86 Demonstrations: SARI: self-authentication-and-recovery image watermarking system ☐

Ching-Yung Lin, Shih-Fu Chang

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available:  pdf(1.53 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this project, we designed a novel image authentication system based on a our semi-fragile watermarking technique. The system, called SARI, can accept quantization-based lossy compression to a determined degree without any false alarm and can sensitively detect and locate malicious manipulations. It's the first system that has such capability in distinguishing malicious attacks from acceptable operations. Furthermore, the corrupted area can be approximately recovered by the information hidden ...

**Keywords:** authentication, information hiding, multimedia security, recovery, watermarking

87 Extended abstract: An image watermark algorithm based on discrete cosine transform block classifying ☐

Zhao Yuehua, Cai Guixian, Du Yunhai

November 2004 **Proceedings of the 3rd international conference on Information security**

Full text available:  pdf(101.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper provides a digital watermark algorithm based on block classifying picture. Through the experience, the algorithm shows better robust than others. The watermarked picture has stronger resistance to image operating.

**Keywords:** block classifying, digital watermark, discrete cosine transform (DCT)

88 Shape retrieval and watermarking: Shape intrinsic fingerprints for free-form object matching ☐

K. H. Ko, T. Maekawa, N. M. Patrikalakis, H. Masuda, F.-E. Wolter

June 2003 **Proceedings of the eighth ACM symposium on Solid modeling and applications**

Full text available:  pdf(687.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This paper presents matching and similarity evaluation methods between two NURBS surfaces, and their application to copyright protection of digital data representing solids or NURBS surfaces. Two methods are employed to match objects: the moment and the curvature methods. The moment method uses integral properties, i.e. the volume, the principal moments of inertia and directions, to find the rigid body transformation as well as the scaling factor. The curvature method is based on the Gaussian an ...

**Keywords:** NURBS, fingerprints, localization, matching, partial matching, registration, similarity, umbilics

89 Technical session 10: watermarking and multi-media processing: Fingerprinting and forensic analysis of multimedia

Daniel Schonberg, Darko Kirovski

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available:  pdf(1.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the prime reasons movie and music studios have ignored the Internet for open-networked multimedia content delivery, has been the lack of a technology that can support a secure digital rights management (DRM) system on a general purpose computer. The difficulty of building an effective multimedia DRM stems from the fact that traditional cryptograic primitives such as encryption or scrambling do not protect audio or video signals once they are played in plain-text. This fact, commonly re ...

**Keywords:** audio, collusion attack, fingerprinting, forensic analysis, video



90 Extended abstract: A new watermarking scheme against inserter-based attacks suitable for digital media with moderate size

Xinpeng Zhang, Shuozhong Wang

November 2004 **Proceedings of the 3rd international conference on Information security**

Full text available:  pdf(178.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

A novel watermarking scheme capable of resisting inserter-based attacks is proposed, which can only affect a few mark-carrying coefficients so that the embedded mark will survive. Although a sufficient number of the mark-carrying coefficients are modified after repeated performing such attacks, leading to the removal of the mark, the induced distortion will become intolerable to make the attacks meaningless.

**Keywords:** attack, digital watermarking, inserter



91 A digital watermarking system for multimedia copyright protection

Jian Zhao, Eckhard Koch

February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Full text available:  pdf(184.20 KB)

Additional Information: [full citation](#), [citing](#)s, [index terms](#)

**Keywords:** copyright protection, digital watermarking, security



92 Audio watermarking techniques for the National Gallery of the Spoken Word

J. R. Deller, Aparna Gurijala, Michael S. Seadle

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(173.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)s, [index terms](#)

This is one of two companion papers describing technical challenges faced in the development of the National Gallery of the Spoken Word (NGSW). The present paper describes watermarking technologies for intellectual property protection. Following an introduction to data watermarking, the paper focuses on a new algorithm called \textit{transform encryption coding} (TEC) and its application to watermarking the NGSW archives. TEC has a number of flexible features that make it amenable to ...




93 Columns: Public policy: new on-line surveys and digital watermarking

Bob Ellis



February 1999 **ACM SIGGRAPH Computer Graphics**, Volume 33 Issue 1

Full text available:  [pdf\(101.91 KB\)](#) Additional Information: [full citation](#)

**94** Image processing: Detecting watermarks at arbitrary image resolution

Josef Scharinger

September 2003 **Proceedings of the 1st international symposium on Information and communication technologies**

Full text available:  [pdf\(3.60 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Informally speaking, a digital watermark is some usually imperceptible embedded control code carrying information related to the intellectual property rights of the data. When we deal with the application of watermarks in digital imaging an essential requirement is that embedded watermarks can still successfully be detected after an image has been printed out and scanned in again. Printing and scanning causes a number of alterations to the image: A/D and D/A conversion, filtering, modification of ...

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